

HYBRID ELECTRIC LINEAR ACTUATOR

ABSTRACT OF THE DISCLOSURE

A hybrid linear actuator features a central load shaft on which a plurality of solid-state magnetostrictive thrusters are positioned in operative relation to electric motors of a permanent magnet synchronous type to impart linear thrust force to the load shaft through clutch units also positioned thereon and under control of force and stroke amplification of output force from motor shafts projecting from the motors.